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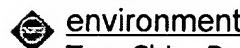? Search Tips
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> Clustering is a widely used technique in data mining applications to discover patterns in the underlying data. Most traditional clustering algorithms are limited to handling datasets that contain either continuous or categorical attributes. However, datasets with mixed types of attributes are common in real life data mining problems. In this paper, we propose a distance measure that enables clustering data with both continuous and categorical attributes. This distance measure is derived from a p ...

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2   Accelerating exact k-means algorithms with geometric reasoning

Dan Pelleg, Andrew Moore
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3   Scalable algorithms for mining large databases

Rajeev Rastogi, Kyuseok Shim
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4

iDistance: An adaptive B⁺-tree based indexing method for nearest neighbor search

H. V. Jagadish, Beng Chin Ooi, Kian-Lee Tan, Cui Yu, Rui Zhang

June 2005 **ACM Transactions on Database Systems (TODS)**, Volume 30 Issue 2

Publisher: ACM Press

Full text available: pdf(1.16 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

In this article, we present an efficient B^{+}-tree based indexing method, called iDistance, for K-nearest neighbor (KNN) search in a high-dimensional metric space. iDistance partitions the data based on a space- or data-partitioning strategy, and selects a reference point for each partition. The data points in each partition are transformed into a single dimensional value based on their similarity with respect to the reference point. This allows the points to be indexed using a B

~~Keywords: Indexing, KNN, nearest neighbor queries~~

5 A novel feature selection method to improve classification of gene expression data

Liang Goh, Qun Song, Nikola Kasabov

January 2004 **Proceedings of the second conference on Asia-Pacific bioinformatics - Volume 29 CRPIT '04**

Publisher: Australian Computer Society, Inc.

Full text available: pdf(202.49 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

This paper introduces a novel method for minimum number of gene (feature) selection for a classification problem based on gene expression data with an objective function to maximise the classification accuracy. The method uses a hybrid of Pearson correlation coefficient (PCC) and signal-to-noise ratio (SNR) methods combined with an evolving classification function (ECF). First, the correlation coefficients between genes in a set of thousands, is calculated. Genes, that are highly correlated acro ...

Keywords: connectionist classification systems, feature selection, gene expression, microarray

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